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Handling non-aggregated person trip data with Web-GIS

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Understanding of human mobility from spatial perspective is important for urban transport planners, human geographers, social scientists and other spatial information users. Advances in geospatial data collection methods and communication devices, we can nowadays collect, store and integrate large amounts of data with GPS and GIS technologies, including mobile phone log data, real-time weather information, person flow data etc. However, handling of these Spatial Big Data require computational power and considerable period of time. Extraction of information from these Spatial Big Data is also challenging for end users in terms of time consuming and requires knowledge on spatial data handling and processing. Here we construct a Web-GIS to extract, visualize and analyze the Person Trip Survey (PTS) data by providing common GIS analytical functions to novice to expert users in timely manner.

Keywords: GIS, person trip, big data, spatial analysis, WebGIS, visualization